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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,662	09/18/2003	Yoshihiro Ishikawa	15689.57.1	4614

22913 7590 10/19/2006

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EXAMINER

NGUYEN, HUY D

ART UNIT	PAPER NUMBER
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2617

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/664,662	Applicant(s) ISHIKAWA ET AL.	
	Examiner Huy D. Nguyen	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 8/9/2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hafiz (US 6,505,042 B1) in view of Ji et al. (US 6,625,134 B1) and in further view of Wan (U.S. Patent No. 6,044,069).

Regarding claims 1, 3, 5, Hafiz teaches a cell search control method in a CDMA mobile communication system including a mobile station which decides a base station the mobile station waits for or communicates with by receiving a perch channel transmitted from the base station, and which monitors a paging signal to the mobile station by means of intermittent reception in the idle mode, said cell search control method comprising the step of:

carrying out, in the mobile station, measurement of receiving quality of a paging message (see column 4, lines 19-22). Hafiz does not specifically teach measurement of receiving quality of the perch channel in synchronization with timing of receiving the paging signal sent to the

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mobile station. Ji et al. teaches that paging channel and pilot channel can be combined into one channel (see column 1, lines 57-59). It would have been obvious to one having ordinary skill in the art, at the time of the invention, to apply the teaching of Ji et al. to Hafiz to use the resource efficiently by reallocating a traffic channel in a soft handoff state as an overhead control channel or as a traffic channel for another mobile station.

The combination of Hafiz and Ji et al. does not teach that the paging signal is sent to a mobile station group which includes the mobile station. However, the preceding limitation is taught in Wan (see column 14, lines 13-15). It would have been obvious to one having ordinary skill in the art, at the time of the invention, to apply the teaching of Wan to the combination of Hafiz and Ji et al. to save system resources.

4. Claims 2, 4, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hafiz (US 6,505,042 B1) in view of Ji et al. (US 6,625,134 B1) and in further view of Wan (U.S. Patent No. 6,044,069) and Mazawa et al. (US 6,628,631 B1).

Regarding claims 2, 4, 6, the combination of Hafiz, Ji et al., and Wan teaches the claimed invention except that the measurement of the receiving quality of the perch channel is carried out in the mobile station when a time period counted from a latest measurement of the receiving quality claim of the perch channel exceeds a predetermined value. However, the preceding limitation is taught in Mazawa et al. (see column 13, lines 31-33). It would have been obvious to one having ordinary skill in the art, at the time of the invention, to apply the teaching of Mazawa et al. to the combination of Hafiz, Ji et al., and Wan to maintain a consistent amount of used radio resources in a radio base station regardless of whether a handoff is being made or not, while preserving uninterrupted communications and cell diversity effect.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy D. Nguyen whose telephone number is 571-272-7845. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JEAN GELIN
PRIMARY EXAMINER

A handwritten signature in cursive script, appearing to read "Jean Gelin", written over the printed name and title.A small, handwritten mark or signature above the printed name.

Huy D Nguyen
Patent Examiner
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